

STORAGE SYSTEM ARCHITECTURE



WHITE PAPER

EXECUTIVE OVERVIEW

Titan Cloud Solutions is redefining the cloud storage market by offering the most economical & high-performing service available today. Designed for a wide range of applications, Titan can serve as primary storage for both on-premises & cloud-based systems, a secondary option for backup & recovery, as a secure solution for long-term archival needs.

Our platform guarantees exceptional data integrity & reliability, promising 99.999999999% durability & 99.99% availability of services, making Titan the to-go choice for businesses looking for dependable cloud storage solutions.

STORAGE FEATURES

Extreme Data Protection & System Resilience:

Titan Cloud Solutions is built to protect against both physical & cyber threats, ensuring the safety & availability of data even in adverse conditions. Our system is structured to prevent data loss from disk failures, power outages, & network disruptions.

SERVICE LEVEL

AGREEMENTS (SLAs):

Our SLAs guarantee:

Eleven 9's
(99.999999999%) of
object durability.

99.9% service availability
within single data
center deployments.

99.99% service availability
with dual data center
configurations.

SYSTEM ARCHITECTURE

INFRASTRUCTURE:

Titan's cloud architecture employs a purpose-built file system that integrates state-of-the-art disk drive technology, resulting in significant cost reductions & performance enhancements over traditional cloud services.

SCALABILITY & REDUNDANCY:

Our architecture is highly scalable & distributed, with no single points of failure. All system components are safeguarded through 1+1, 1+1, or N:M redundancy configurations to maintain continuous service availability.

CROSS-REGION REPLICATION:

Titan supports advanced replication features that allow customer data to be automatically replicated to additional Titan data centers, ensuring maximal service availability & data durability across geographic regions.

ADDITIONAL SECURITY MEASURES

ERASURE CODING:

We employ sophisticated erasure coding techniques to protect data. This method distributes data across multiple disks, ensuring that even if up to four disks fail simultaneously, the data can still be recovered without loss.

DATA PRIVACY & NETWORK SECURITY:

We implement strict access controls & encryption protocols to protect data at rest and in transit. Our comprehensive data privacy strategies ensure that sensitive information remains secure from unauthorized access & data breaches.

DATA IMMUTABILITY & INTEGRITY CHECKING:

Titan offers optional data immutability to protect against accidental or malicious alterations & deletions. Our system also performs regular integrity check to ensure data accuracy & reliability.

CONTACT TITAN CLOUD SOLUTIONS

Discover how Titan can simplify your storage by reducing costs & complexity. Try Titan Cloud Solutions for free & get up to 1 TB for 30 days.

ABOUT TITAN CLOUD SOLUTIONS

Founded by veterans in the cloud storage industry, Titan Cloud Solutions aims to commoditize storage services, making high-quality storage services, making high-quality storage available to all at reduced costs. Titan is at the forefront of storage technology, continually innovating to exceed market demands.